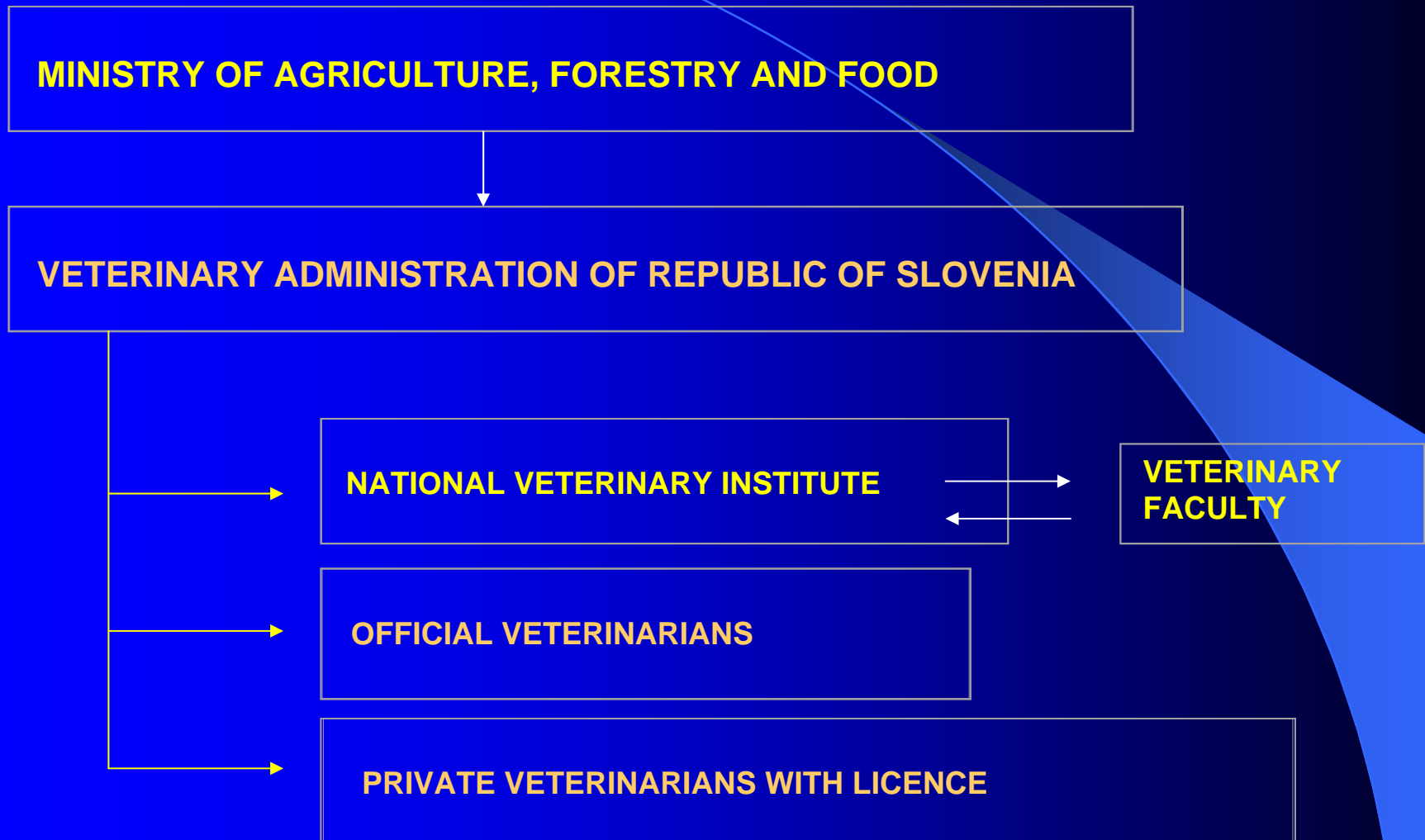


**VETERINARY FACULTY OF UNIVERSITY OF LJUBLJANA
NATIONAL VETERINARY INSTITUTE**

Majda Biasizzo
Jasna Mićunović

SISTEM OF VETERINARY CONTROL IN SLOVENIA



VETERINARY FACULTY

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Unit for diagnostics of infection diseases

Unit for food of animal origin

Unit for laboratorial and clinical testing of drugs

Unit for reproduction and genetics

Unit for pathology of animal nutrition and environmental hygiene

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NRL – *E. coli* including Verotoxigenic *E. coli* (VTEC)

Unit for food of animal origin

Unit for diagnostics of infection diseases

NRL – for Marine Biotoxins

NRL – for bacteriological and viral

contaminations of bivalve molluscs

NRL – for coagulase positive staphylococci

NRL – for *Salmonella*

NRL – for *Listeria monocytogenes*

NRL – for *Campylobacter*

NRL – for antimicrobial
resistance

E. coli

- **ISO 16649 – 2** Horizontal method for the enumeration of β -glucuronidase-positive *E. coli*
- **ISO 16649 – 3** 2 / colony-count technique
 3 / MPN

VTEC

Isolation - ISO 16654:2001

enrichment	mTSB + N
Separation concentration	Dynabeads anti-E.coli O157
isolation	CT-SMAC, SMAC or CHROMagar O157
confirmation	indol production, slide agglutination (O157)

**Detection – biochemical identification with commercial kits
PCR in house method (eaeA intimin gene, VT1, VT2, hlyA)**

Table 1: Number of samples examined for *E. coli* O157 from different matrices in 2006 and number of positive

<i>E. coli</i> O157	MATRICES	No. Samples / 2006	Positive / 2006
	foodstuffs (bovine meat)	120	0
	feaces	250	6
	Σ	370	6

Table 2: PCR detecten of diferen genes at isolated *E.coli* O157

2006	PCR multiplex			
	eaeA	STX 1	STX 2	hlyA
1	+	-	+	+
2	+	-	+	+
3	+	-	+	+
4	-	-	-	-
5	+	-	-	-
6	+	-	+	+